AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

- 1. (Currently Amended) An isolated peptide comprising a Lol p 1 T cell epitope said peptide comprising at least 5 contiguous amino acids of an amino acid sequence derived or selected from the group consisting of:
 - (i) amino acids 19-47;
 - (ii) amino acids 73-92;
 - (iii) amino acids 100-128;
 - (iv) amino acids 127-146;
 - (v) amino acids 154-173; and
 - (vi) amino acids 181-209-;

inclusive, of Lol p 1 or a homolog thereof and wherein said peptide molecule is capable of interacting with T cells and modifying T cell function when incubated with cells from subjects having a condition characterised by an aberrant, unwanted or otherwise inappropriate immune response to Lol p 1 or a functional derivative, homologue, mutant or analogue of said peptide.

- 2. (Currently Amended) An isolated peptide comprising a Lol p 5 T cell epitope said peptide comprising at least 5 contiguous amino acids of an amino acid sequence derived or selected from the group consisting of:
 - (i) amino acids 37-81;
 - (ii) amino acids 118-137;
 - (iii) amino acids 145-173:
 - (iv) amino acids 172-191; and
 - (v) amino acids 190-245;-

inclusive of Lol p 5 or a homolog thereof; and wherein said peptide molecule is capable of interacting with T cells and modifying T cell function when incubated with cells from

subjects having a condition characterised by an aberrant, unwanted or otherwise inappropriate immune response to Lol p 5 or a functional derivative, homologue, mutant or analogue of said peptide provided that X₂ is not the amino acid sequence 100-119 or 190-209.

3. (Canceled)

- 4. (Previously Presented) The isolated peptide according to claim 1 wherein said amino acid sequence is amino acids 19-38 inclusive of Lol p 1 or a homolog thereof.
- 5. (Previously Presented) The isolated peptide according to claim 1 wherein said amino acid sequence is amino acids 28-47 inclusive of Lol p 1 or a homolog thereof.
- 6. (Previously Presented) The isolated peptide according to claim 1 wherein said amino acid sequence is 73-92 inclusive of Lol p 1 or a homolog thereof.
- 7. (Previously Presented) The isolated peptide according to claim 1 wherein said amino acids sequence is amino acids 100-119 inclusive of Lol p 1 or a homolog thereof.
- 8. **(Previously Presented)** The isolated peptide according to claim 1 wherein said amino acids sequence is amino acids 109-128 inclusive of Lol p 1 or a homolog thereof.
- 9. (Previously Presented) The isolated peptide according to claim 1 wherein said amino acid sequence is amino acids 127-146 inclusive of Lol p 1 or a homolog thereof.

10. (Canceled)

- 11. (Previously Presented) The isolated peptide according to claim 2 wherein said amino acid sequence is amino acids 37-56 inclusive of Lol p 5 or a homolog thereof.
- 12. (Previously Presented) The isolated peptide according to claim 2 wherein said amino acid sequence is amino acids 46-65 inclusive of Lol p 5 or a homolog thereof.

13. (Previously Presented) The isolated peptide according to claim 2 wherein said amino acid sequence is amino acids 55-74 inclusive of Lol p 5 or a homolog thereof.

- 14. (Previously Presented) The isolated peptide according to claim 2 wherein said amino acid is amino acids 64-83 inclusive of Lol p 5 or a homolog thereof.
- 15. **(Previously Presented)** The isolated peptide according to claim 2 wherein said amino acid is amino acids 118-137 inclusive of Lol p 5 or a homolog thereof.
- 16. (Previously Presented) The isolated according to claim 2 wherein said amino acid is amino acids 145-164 inclusive of Lol p 5 or a homolog thereof.
- 17. (Currently Amended) The isolated peptide according to claim 1 wherein said amino acid sequence comprises at least 5 amino acids derived from amino acid sequences selected from amino acid sequences selected from the group consisting of:

 LDAKSTWYGKPTGAGPKDNG (SEQ ID NO: 5);

 GHAFGSMAKKGEEQNVRSAG (SEQ ID NO:15);

 GSNPNYLAILVKYVDGDGDV (SEQ ID NO:20); and

 KESWGAVWRIDTPDKLTGPF (SEQ ID NO:24).
- 18. **(Previously Presented)** The isolated peptide according to claim 17 wherein said amino acid sequence corresponds substantially to SEQ ID NO:5.
- 19. (Currently Amended) The isolated peptide according to claim 2 wherein said amino acid sequence comprises at least 5 amino acids derived from amino acid sequences selected from the group consisting of:

 DVNAGFKAAVAAAANAPPAD (SEQ ID NO:33);

 GELQIVDKIDAAFKIAATAA (SEQ ID NO:45);

DAAFKIAATAANAAPTNDKE (SEQ ID NO:46);
PEVKYAVFEAALTKAITAMT (SEQ ID NO:53); and

AALTKAITAMTQAQKAGKPA (SEQ ID NO:54).

20. **(Previously Presented)** The isolated peptide according to claim 19 wherein said amino acid sequence corresponds substantially to SEQ ID NO:33.

- 21. **(Previously Presented)** The isolated peptide an according to claim 1 wherein said amino acid sequence is amino acids 181-200 inclusive of Lol p 1 or a homolog thereof.
- 22. (Currently Amended) The isolated peptide according to claims 1 wherein said amino acid sequence is amino acids 190-209 inclusive of Lol p 1 or a homolog thereof.
- 23. (Previously Presented) The isolated peptide according to claim 2 wherein said amino acid sequence is amino acids 154-173 inclusive of Lol p 5 or a homolog thereof.
- 24. **(Previously Presented)** The isolated peptide according to claim 2 wherein said amino acid sequence is acids 172-191 inclusive of Lol p 5 or homolog thereof.
- 25. **(Previously Presented)** The isolated peptide according to claim 2 wherein said amino acid sequence is amino acids 199-218 inclusive of Lol p 5 or a homolog thereof.
- 26. (Previously Presented) The isolated peptide according to claim 2 wherein said amino acid sequence is amino acids 208-227 inclusive of Lol p 5 or a homolog thereof.
- 27. (Previously Presented) The isolated peptide according to claim 2 wherein said amino acid sequence is amino acids 217-236 inclusive of Lol p 5 or a homolog thereof.
- 28. (Previously Presented) The isolated peptide according to claim 2 wherein said amino acid sequence is amino acids 226-245 inclusive of Lol p 5 or a homolog thereof.
- 29. (Currently Amended) The isolated peptide according to claim 17 wherein said amino acid sequence corresponds substantially to SEQ ID NO:15.
- 30. **(Previously Presented)** The isolated peptide according to claim 17 wherein said amino acid sequence is corresponds substantially to SEQ ID NO:20.

31. **(Previously Presented)** The isolated peptide according to claim 19 wherein said amino acid sequence corresponds substantially to SEQ ID NO:24.

- 32. **(Previously Presented)** The isolated peptide according to claim 19 wherein said amino acid sequence corresponds substantially to SEQ ID NO:45.
- 33. **(Previously Presented)** The isolated peptide according to claim 19 wherein said amino acid sequence corresponds substantially to SEQ ID NO:46.
- 34. **(Previously Presented)** The isolated peptide according to claim 19 wherein said amino acid sequence corresponds substantially to SEQ ID NO:53.
- 35. (Previously Presented) The isolated peptide according to claim 19 wherein said amino sequence corresponds substantially to SEQ ID NO:54.
- 36. **(Previously Presented)** The peptide according to claim 1 or 2 wherein said modification of T cell functioning is the induction of T cell differentiation.
- 37. **(Previously Presented)** The peptide according to claim 1 or 2 wherein said peptide exhibits reduced or ablated IgE binding.
- 38. **(Previously Presented)** An isolated nucleic acid molecule comprising a sequence of nucleotide encoding or complementary to a sequence encoding the isolated peptide according to claim 1 or 2.
- 39. **(Previously Presented)** A method for the treatment and/or prophylaxis of a condition in a subject, which condition is characterised by an aberrant, unwanted or otherwise inappropriate immune response to Lol p 1 and/or Lol p 5, said method comprising administering to said subject an effective amount of a peptide according to claim 1 or 2 for a time and under conditions sufficient to remove or reduce the presence or function of T cells directed to said Lol p 1 and/or Lol p 5 or a functional homolog thereof.

40. **(Original)** The method according to claim 39 wherein said condition is hypersensitivity to a grass pollen of the subfamily Pooideae and even more preferably Rye grass or Timothy grass pollen.

41-44. (Canceled)

- 45. **(Previously Presented)** A pharmaceutical composition comprising a peptide according to claim 1 or 2 together with one or more pharmaceutically acceptable carriers and/or diluents.
- 46. **(Previously Presented)** A method of diagnosing or monitoring a condition in a mammal, which condition is characterised by an aberrant, unwanted or inappropriate response to Lol p 1 and/or Lol p 5, said method comprising screening for Lol p 1 and/or Lol p 5 reactive T cells and/or antibodies utilising the peptides according to claim 1 or 2.
- 47. **(Previously Presented)** The method according to claim 46 wherein said condition is hypersensitivity to a grass pollen of the subfamily Pooideae and even more preferably Rye grass or Timothy grass pollen.
- 48. (Currently Amended) A diagnostic kit for use in 46-diagnosing or monitoring a condition in a mammal, which condition is characterised by an aberrant, unwanted or inappropriate response to Lol p 1 and/or Lol p 5-, wherein said kit comprises a peptide according to claims 1 or 2.
- 49. **(Previously Presented)** A method for the treatment and/or prophylaxis of a condition in a subject, which condition is characterised by an aberrant, unwanted or otherwise inappropriate immune response to Lol p 1 and/or Lol p 5, said method comprising administering to said subject an effective amount of a nucleic acid according to claim 38 for a time and under conditions sufficient to remove or reduce the presence or function of T cells directed to said Lol p 1 and/or Lol p 5 or a functional homolog thereof.

50. (Previously Presented) A pharmaceutical composition comprising a nucleic acid according to claim 38 together with one or more pharmaceutically acceptable carriers and/or diluents.

- 51. (Previously Presented) A method of diagnosing or monitoring a condition in a mammal, which condition is characterised by an aberrant, unwanted or inappropriate response to Lol p 1 and/or Lol p 5, said method comprising screening for Lol p 1 and/or Lol p 5 reactive T cells and/or antibodies utilising the nucleic acid according to claim 38.
- 52. (Previously Presented) A diagnostic kit for use in the method of diagnosing or monitoring a condition in a mammal, which condition is characterised by an aberrant, unwanted or inappropriate response to Lol p 1 and/or Lol p 5, wherein said kit comprises a nucleic acid according to claim 38.